

METHOD, SYSTEM, PROGRAM, AND DATA
STRUCTURES FOR HALFTONING WITH LINE
SCREENS HAVING DIFFERENT LINES PER INCH (LPI)

ABSTRACT

- 5 Provided is a method, system, program, and data structures for halftoning an
input image comprised of at least two input color components. Each input color
component provides input intensity values for the color component at pixel locations
in the image. At least two halftoning screens are accessed. There is one screen for
each color component and halftone output generated by at least one of the screens has
10 a lines per inch (LPI) that is at least approximately twenty percent different than the
LPI of halftone output generated by one other screen. The input image is separated
into the separate color components. The accessed screen for each color component is
applied to the input intensity values for the color component to produce output
intensity values for the color component. The combined halftone outputs for all the
15 color components form the output pixels.

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